

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/567,867  
Source: IFwp  
Date Processed by STIC: 2/22/06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 02/22/2006

PATENT APPLICATION: US/10/567,867

TIME: 09:36:58

Input Set : E:\D0310 PCT sequence listing.ST25.txt  
 Output Set: N:\CRF4\02222006\J567867.raw

3 <110> APPLICANT: Li, Martha  
 4 Rupnow, Brent A.  
 5 Webster, Kevin R.  
 6 Jackson, Donald  
 7 Wong, Tai W.  
 9 <120> TITLE OF INVENTION: BIOMARKERS OF CYCLIN-DEPENDENT KINASE MODULATION  
 11 <130> FILE REFERENCE: D0310 PCT  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/567,867  
 C--> 13 <141> CURRENT FILING DATE: 2006-01-27  
 13 <150> PRIOR APPLICATION NUMBER: US 60/490,890  
 14 <151> PRIOR FILING DATE: 2003-07-29  
 16 <160> NUMBER OF SEQ ID NOS: 2786  
 18 <170> SOFTWARE: PatentIn version 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 666  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
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 28 ctctcctctg gcccggcgcc gggagagagg ccgagatggc agatgagatt gccaaggctc 120  
 30 aggtcgctcg gcctgggtggc gacacgatct ttggaaagat catccgcaag gaaataccag 180  
 32 ccaaaatcat tttttaggat gaccggtgcc ttgcttcca tgacatttcc cctcaagcac 240  
 34 caacacattt tctgggtata cccaagaaac atatatccca gatttctgtg gcagaagatg 300  
 36 atgatgaaag tcttcttggc cacttaatga ttgttggcaa gaaatgtgt gctgatctgg 360  
 38 gcctgaataa gggttatcga atgggttgta atgaaggttc agatggtgaa cagtctgtct 420  
 40 atcacgttca tctccatgtt ctggagggtc ggcaaattgca ttggcctcct ggttaagcac 480  
 42 gttttgggta taattttctc ttcttttaggc aatgattaag tttaggcaatt tccagttatgt 540  
 44 taagtaaacac acttattttt gcctgtgtat ggagagattc aagaaataat tttaaaaaccg 600  
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 53 <212> TYPE: PRT  
 54 <213> ORGANISM: Homo sapiens  
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 59 1 5 10 15  
 62 Thr Ile Phe Gly Lys Ile Ile Arg Lys Glu Ile Pro Ala Lys Ile Ile  
 63 20 25 30  
 66 Phe Glu Asp Asp Arg Cys Leu Ala Phe His Asp Ile Ser Pro Gln Ala  
 67 35 40 45  
 70 Pro Thr His Phe Leu Val Ile Pro Lys Lys His Ile Ser Gln Ile Ser  
 71 50 55 60  
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74 Val Ala Glu Asp Asp Asp Glu Ser Leu Leu Gly His Leu Met Ile Val  
75 65 70 75 80  
78 Gly Lys Lys Cys Ala Ala Asp Leu Gly Leu Asn Lys Gly Tyr Arg Met  
79 85 90 95  
82 Val Val Asn Glu Gly Ser Asp Gly Gly Gln Ser Val Tyr His Val His  
83 100 105 110  
86 Leu His Val Leu Gly Gly Arg Gln Met His Trp Pro Pro Gly  
87 115 120 125

90 <210> SEQ ID NO: 3

91 <211> LENGTH: 4244

92 <212> TYPE: DNA

93 <213> ORGANISM: Homo sapiens

95 <400> SEQUENCE: 3

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100 gagagtgtac	taccagagca	ggaagaggag	attctggat	ctgatgtat	ttagcaagaa	180
102 gatcctaatt	attattgtaa	aggaggat	catcttgta	aaattggaga	tctattcaat	240
104 gggagatacc	atgtgtatccg	aaagtttagc	tggggacact	tttcaacagt	atgttatca	300
106 tggatatttc	agggaaagaa	atttggca	atgaaagttag	ttaaaaagtgc	tgaacattac	360
108 actgaaacag	cactagatga	aatccggtt	ctgaagttag	ttcgcaattc	agaccctaatt	420
110 gatccaaata	gagaaatgtt	tgttcaacta	ctagatgact	ttaaaaatatc	aggagttat	480
112 ggaacacata	tctgcatggt	atttgaagtt	ttggggcatc	atctgctcaa	gtggatcatc	540
114 aaatccaatt	atcagggct	tccactgct	tgtgtcaaaa	aaattattca	gcaagtgtta	600
116 cagggtcttg	attatttaca	taccaagtgc	cgtatcatcc	acactgacat	taaaccagag	660
118 aacatcttat	tgtcagtgaa	tgagcgtac	attcggaggc	tggctgcaga	agcaacagaa	720
120 tggcagcgt	ctggagctcc	tccgccttcc	ggatctgcag	tcagtaactgc	tccccagcct	780
122 aaaccagctg	acaaaatgtc	aaagaataag	aagaagaaat	tgaagaagaa	gcagaagcgc	840
124 caggcagaat	tactagagaa	gcgaatgcag	gaaattgagg	aatggagaa	agagtcgggc	900
126 cctggcaaaa	aaagacccaa	caagcaagaa	gaatcagaga	gtcctgtga	aagacccttg	960
128 aaagagaacc	cacctaataa	aatgacccaa	gaaaaacttg	aagagtcaag	taccattggc	1020
130 caggatcaaa	cgcttatgga	acgtgataca	gagggtggtg	cagcagaaat	taattgcaat	1080
132 ggagtgtatt	aagtctttaa	ttatactcag	aacagtaata	atgaaacatt	gagacataaaa	1140
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136 ctaagctccc	aaaatggaga	cagcagcaca	tctcaagaaa	cagactcttgc	tacacctata	1260
138 acatctgagg	tgtcagacac	catggtgtgc	cagtcttct	caactgtagg	tcagtcattc	1320
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142 gaacaagagc	aagaacataa	cggaccactg	gacaacaaag	gaaaatccac	ggctggaaat	1440
144 ttcttggta	atccccttga	gccaaaaaaaaat	gcagaaaaagc	tcaagggtgaa	gattgctgac	1500
146 ctggaaatg	tttgtggca	caaacatttc	actgaagata	ttcaaaacaag	gcaatatcg	1560
148 tccttggaa	ttctaatcgg	atctggctat	aataccctgt	ctgacatttgc	gagcacggca	1620
150 tgcattggct	ttgaactggc	cacaggtgac	tattgtttg	aaccttattc	agggaaagag	1680
152 tacactcgag	atgaagatca	cattgcatttgc	atcatagaac	ttctgggaa	gggcctcg	1740
154 aagcttatttgc	ttggcaggaaa	atattccaag	gaatttttca	ccaaaaaaagg	tgacctgaaa	1800
156 catatcacga	agctgaaacc	ttggggccctt	tttgaggatc	tagtggagaa	gtatgatgtgg	1860
158 tcgcaggaa	aggcagctgg	cttcacagat	ttcttactgc	ccatgttgg	gctgatccct	1920
160 gagaagagag	ccactgcccgc	cgagtgtctc	cggcaccctt	ggcttaactc	ctaagccct	1980
162 gcccagcacc	acagcagaga	tcacacactg	accctccgccc	cttccccc	aagcattttc	2040
164 ctctccctt	ttcagggtga	agctcttctt	tcaagagttt	ctagatcttgc	ttttttttt	2100
166 aatccaaat	gttcatttgg	gtttgcttac	ttgaccctgt	ggagatcccc	acagccatttgc	2160

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168	ggcatcctag	gtgaatttgg	ccttggttgg	gctctgccaa	agactaatgg	actaaaatgt	2220
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172	tccctttga	aaagagctat	gaagggttat	gagcccatcc	tttattcat	tgactctaag	2340
174	agtcaaattt	tctagtgcatt	atcctattgc	cagcataagg	atgaggaggg	ggaaagggtc	2400
176	ttaattctat	gtacagcaga	gacattaaac	ttgctgtgtc	cgggctgcat	catcttcctg	2460
178	gactgtttct	gttgttcacat	tttccctgc	aacttttaag	ctactgtctt	2520	
180	ttttaatacg	ctatatgaac	accatttgc	ggtaccattt	tatcactgtt	caaagcactg	2580
182	tccaaattcc	ttcatccttt	aatagttaa	atcttgaat	cttcagtcgt	atttttaatg	2640
184	taagcaaaaa	cagaaccatt	gaatagtaat	ttcttgagaa	cctcaggtgt	tctataaaca	2700
186	gtcccttcct	gtatgtcttc	tattacccta	agaccaggt	tatTTGTTT	ggttgtttt	2760
188	tttattttt	tggtttgtat	tccatggctg	gcactttact	cattgcactt	gagtttattg	2820
190	ccccataact	aaaggatcag	gatgatggta	gaacggagat	ctgggttca	gagctttccc	2880
192	atthaagaaa	aatagatctt	gagattctga	ttctttcca	aacagtcccc	tgctttcatg	2940
194	tacagctttt	tcttacctt	accatttttt	ctggccttga	agcagtttc	ctctatggct	3000
196	ttgccttc	gatTTCTCA	gaggctcgag	tcttaat	aaccccaat	gaaagaacca	3060
198	aggggagggg	tgggatggca	ctttttttt	ttgggtctgt	tttggTTTGT	tttttggTTG	3120
200	gttgggtcgt	tatTTTTAA	gattagccat	tctctgtgc	tatTTCCCTA	cataatgtca	3180
202	atTTTAACC	ataattttga	catgattgag	atgtacttga	ggctttttt	tttaattga	3240
204	aaaaagactt	tgcaattttt	tttttaggat	gagctctcc	tagacttgac	ctagaatatt	3300
206	acatatttc	ccagtaagta	atactgaaga	gcaaaagaga	ggcaggattt	gggtcacagc	3360
208	cgcttc	gcatggacca	agtggccctt	ggggatttgc	gcgttctcg	agtggctgt	3420
210	ggactcgaat	ttacagaaag	ccacagaggt	gcaacttgc	gctctgtcg	caagccacca	3480
212	gtgaggctat	tggtaacca	ccttctata	caggagattt	aatctactt	tgtcatttat	3540
214	ccaccacagt	gacaaaggaa	aagtggtgc	gttatgcatt	ccatTTAACT	cataaacata	3600
216	ttactctgag	taactggcca	gccattcatc	ggatccttca	ttgggtactc	ctgaaatcag	3660
218	acatgttc	gtagaaagaa	ttttaagttt	ggcttctat	gcacctatca	agaatcaaga	3720
220	gaatagattt	tatcaaacaa	cgccaggaa	atccttcagc	aattctaattc	cactttgggt	3780
222	tttcagctgt	ttttacatct	aaagcaatag	actagaactt	aattatctt	tacatagtaa	3840
224	aatcacaatt	gtgaaattac	aggaattctg	gtgatattaa	ggtgaaataa	caaaacacaa	3900
226	aaggccctat	tttacagtt	gatgtgacag	taagttttaa	tagaacctgt	aaccttattt	3960
228	tggaaatgt	tctccaccaa	ataagggttt	tttccctat	ttaaggagcc	agatggattt	4020
230	aaagatgtgg	aaataggcag	ctgttagatct	tgatcttca	ggtacccat	gtacctttat	4080
232	ttagcttaat	tataatactg	tcaaatttgc	acgatctc	taaaggattt	ctatTTGCTG	4140
234	tcagttaaaa	ataaaagccct	aaatacattt	ttatTTCTC	tactgagggc	attgtctgtt	4200
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239 <210> SEQ ID NO: 4

240 <211> LENGTH: 654

241 <212> TYPE: PRT

242 <213> ORGANISM: Homo sapiens

244 <400> SEQUENCE: 4

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247 1 5 10 15

250 Ala Lys Lys Asp Lys Ala Gln Arg Lys Ser Glu Thr Gln His Arg Gly

251 20 25 30

254 Ser Ala Pro His Ser Glu Ser Asp Leu Pro Glu Gln Glu Glu Glu Ile

255 35 40 45

258 Leu Gly Ser Asp Asp Asp Glu Gln Glu Asp Pro Asn Asp Tyr Cys Lys

259 50 55 60

262 Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn Gly Arg Tyr

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**Input Set : E:\D0310 PCT sequence listing.ST25.txt**  
**Output Set: N:\CRF4\02222006\J567867.raw**

263	65	70	75	80
266	His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr Val Trp Leu			
267	85	90	95	
270	Ser Trp Asp Ile Gln Gly Lys Lys Phe Val Ala Met Lys Val Val Lys			
271	100	105	110	
274	Ser Ala Glu His Tyr Thr Glu Thr Ala Leu Asp Glu Ile Arg Leu Leu			
275	115	120	125	
278	Lys Ser Val Arg Asn Ser Asp Pro Asn Asp Pro Asn Arg Glu Met Val			
279	130	135	140	
282	Val Gln Leu Leu Asp Asp Phe Lys Ile Ser Gly Val Asn Gly Thr His			
283	145	150	155	160
286	Ile Cys Met Val Phe Glu Val Leu Gly His His Leu Leu Lys Trp Ile			
287	165	170	175	
290	Ile Lys Ser Asn Tyr Gln Gly Leu Pro Leu Pro Cys Val Lys Lys Ile			
291	180	185	190	
294	Ile Gln Gln Val Leu Gln Gly Leu Asp Tyr Leu His Thr Lys Cys Arg			
295	195	200	205	
298	Ile Ile His Thr Asp Ile Lys Pro Glu Asn Ile Leu Leu Ser Val Asn			
299	210	215	220	
302	Glu Gln Tyr Ile Arg Arg Leu Ala Ala Glu Ala Thr Glu Trp Gln Arg			
303	225	230	235	240
306	Ser Gly Ala Pro Pro Pro Ser Gly Ser Ala Val Ser Thr Ala Pro Gln			
307	245	250	255	
310	Pro Lys Pro Ala Asp Lys Met Ser Lys Asn Lys Lys Lys Lys Leu Lys			
311	260	265	270	
314	Lys Lys Gln Lys Arg Gln Ala Glu Leu Leu Glu Lys Arg Met Gln Glu			
315	275	280	285	
318	Ile Glu Glu Met Glu Lys Glu Ser Gly Pro Gly Gln Lys Arg Pro Asn			
319	290	295	300	
322	Lys Gln Glu Glu Ser Glu Ser Pro Val Glu Arg Pro Leu Lys Glu Asn			
323	305	310	315	320
326	Pro Pro Asn Lys Met Thr Gln Glu Lys Leu Glu Ser Ser Thr Ile			
327	325	330	335	
330	Gly Gln Asp Gln Thr Leu Met Glu Arg Asp Thr Glu Gly Gly Ala Ala			
331	340	345	350	
334	Glu Ile Asn Cys Asn Gly Val Ile Glu Val Ile Asn Tyr Thr Gln Asn			
335	355	360	365	
338	Ser Asn Asn Glu Thr Leu Arg His Lys Glu Asp Leu His Asn Ala Asn			
339	370	375	380	
342	Asp Cys Asp Val Gln Asn Leu Asn Gln Glu Ser Ser Phe Leu Ser Ser			
343	385	390	395	400
346	Gln Asn Gly Asp Ser Ser Thr Ser Gln Glu Thr Asp Ser Cys Thr Pro			
347	405	410	415	
350	Ile Thr Ser Glu Val Ser Asp Thr Met Val Cys Gln Ser Ser Ser Thr			
351	420	425	430	
354	Val Gly Gln Ser Phe Ser Glu Gln His Ile Ser Gln Leu Gln Glu Ser			
355	435	440	445	
358	Ile Arg Ala Glu Ile Pro Cys Glu Asp Glu Gln Glu Gln Glu His Asn			
359	450	455	460	

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363	465					470					475					480	
366	Asn	Pro	Leu	Glu	Pro	Lys	Asn	Ala	Glu	Lys	Leu	Lys	Val	Lys	Ile	Ala	
367						485				490					495		
370	Asp	Leu	Gly	Asn	Ala	Cys	Trp	His	Lys	His	Phe	Thr	Glu	Asp	Ile	Gln	
371						500			505					510			
374	Thr	Arg	Gln	Tyr	Arg	Ser	Leu	Glu	Val	Leu	Ile	Gly	Ser	Gly	Tyr	Asn	
375						515			520					525			
378	Thr	Pro	Ala	Asp	Ile	Trp	Ser	Thr	Ala	Cys	Met	Ala	Phe	Glu	Leu	Ala	
379						530			535				540				
382	Thr	Gly	Asp	Tyr	Leu	Phe	Glu	Pro	His	Ser	Gly	Glu	Glu	Tyr	Thr	Arg	
383	545					550				555					560		
386	Asp	Glu	Asp	His	Ile	Ala	Leu	Ile	Ile	Glu	Leu	Leu	Gly	Lys	Val	Pro	
387						565			570					575			
390	Arg	Lys	Leu	Ile	Val	Ala	Gly	Lys	Tyr	Ser	Lys	Glu	Phe	Phe	Thr	Lys	
391						580			585					590			
394	Lys	Gly	Asp	Leu	Lys	His	Ile	Thr	Lys	Leu	Lys	Pro	Trp	Gly	Leu	Phe	
395						595			600				605				
398	Glu	Val	Leu	Val	Glu	Lys	Tyr	Glu	Trp	Ser	Gln	Glu	Glu	Ala	Ala	Gly	
399						610			615				620				
402	Phe	Thr	Asp	Phe	Leu	Leu	Pro	Met	Leu	Glu	Leu	Ile	Pro	Glu	Lys	Arg	
403	625					630				635					640		
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420	ggcgc	aag	cc	gc	cag	ccgc	ccccgc	gc	act	cg	gg	cg	gg	gc	180		
422	cagg	cac	gag	aa	gac	cct	gg	gt	gt	gt	tc	tg	tc	gg	gg	240	
424	caagg	ac	ggc	gtt	c	tct	ggat	tc	t	tt	gg	ct	gt	ga	aa	300	
426	gagaattt	tt	at	at	at	cc	at	gt	tt	tt	gg	at	tt	gg	aa	360	
428	aaac	agt	atc	c	at	gt	gaa	ag	tg	tt	gg	ct	gt	ta	at	420	
430	atta	agat	at	tt	aa	ag	ct	ta	at	tt	gg	aa	at	tc	at	480	
432	gcaga	agg	tt	tg	t	ct	ac	ag	cc	tt	gg	tt	tt	aa	at	540	
434	at	ttt	cct	at	ta	tt	tt	at	tt	tt	tt	tt	tt	tt	tt	600	
436	catt	cagg	ca	c	tt	ct	gg	ta	caca	act	gg	tt	cc	aa	at	660	
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440	aaata	aa	ag	at	ct	aa	gg	cc	tt	tt	cc	cc	tt	cc	tt	780	
442	cac	ac	ac	cc	tc	t	ccc	ca	gt	tt	cc	cc	tt	cc	tt	840	
444	tca	aaa	at	ct	ct	tg	at	cc	at	tt	cc	cc	tt	cc	at	900	
446	ta	cag	at	t	tt	c	ag	cc	at	tt	cc	cc	tt	cc	at	960	
448	tgac	gtt	c	c	t	c	t	tt	cc	tt	cc	cc	tt	cc	tt	1020	
450	agat	gata	ac	g	a	agg	at	tt	tt	tt	tt	tt	tt	tt	tt	1080	
452	atgg	aa	act	tt	t	c	t	ac	tt	tt	tt	tt	tt	tt	tt	1140	
454	ctaa	at	ttt	at	aa	tt	tt	tt	tt	tt	tt	tt	tt	tt	tt	1200	

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 02/22/2006  
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Input Set : E:\D0310 PCT sequence listing.ST25.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:265; N Pos. 751,752,753,754,755,756,757,758,759,760,761,762,763,764  
 Seq#:265; N Pos. 765,766,767,768,769,770,771,772,773,774,775,776,777,778  
 Seq#:265; N Pos. 779,780,781,782,783,784,785,786,787,788,789,790,791,792  
 Seq#:265; N Pos. 793,794,795,796,797,798,799,800,801,802,803,804,805,806  
 Seq#:265; N Pos. 807,808,809,810,811,812,813,814,815,816,817,818  
 Seq#:306; N Pos. 1,12,26,55,61,83,174,404,467,491,494,536,560,568,588,626  
 Seq#:306; N Pos. 632,638,643,650,665,672,685,687,694,724,726,733,744,757  
 Seq#:306; N Pos. 764,785,789,801,808,810,813,824,830,833,836,838,843,853  
 Seq#:306; N Pos. 854,870,872,875,894,898,919,925,928,930,944,947,962,964  
 Seq#:306; N Pos. 972,975  
 Seq#:382; N Pos. 481  
 Seq#:452; N Pos. 2,3,4,5,110,112,156,173,230,243,251,414,444,471,473,522  
 Seq#:452; N Pos. 523,524,530,538,543,544,550,555,558,559,560,561,562,563  
 Seq#:452; N Pos. 564,565,566,567,568,569,570,571,572,573,574,575,576,577  
 Seq#:452; N Pos. 578,579,580,581,582,587,588,589,590,591,592,593,594,595  
 Seq#:452; N Pos. 596,597,598,599,600,601,602,603,604,605,606,607,608,609  
 Seq#:452; N Pos. 610,611,612,613,614,615,616,617,618,619,620,621,622,623  
 Seq#:452; N Pos. 624,625,626,627,628,629,630,631,632,633,634,635,636,637  
 Seq#:452; N Pos. 638,639,640,641,642,643,644,645,646,647,648,649,650,651  
 Seq#:452; N Pos. 652,653,654,655,656,657,658,659,660,661,662,663,664,665  
 Seq#:452; N Pos. 666,667,668,669,670,671,672,673,674,675,676,677,678,679  
 Seq#:452; N Pos. 680,681,682,683,684,685,686,687,688,689,690,691,692,693  
 Seq#:452; N Pos. 694,695,696,697,698,699,700,701,702,703,704,705,706,707

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 02/22/2006  
PATENT APPLICATION: US/10/567,867                   TIME: 09:36:59

Input Set : E:\D0310 PCT sequence listing.ST25.txt  
Output Set: N:\CRF4\02222006\J567867.raw

Seq#:452; N Pos. 708,709,710,711,712,713,714,715  
Seq#:473; N Pos. 2  
Seq#:497; Xaa Pos. 2,4,306  
Seq#:608; N Pos. 2534,2536  
Seq#:661; N Pos. 432,847,904,1401,1600,1631  
Seq#:855; N Pos. 356,408,470  
Seq#:925; N Pos. 2741

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2775,2776,2777,2778,2779,2780,2781,2782,2783,2784,2785

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/567,867

DATE: 02/22/2006

TIME: 09:36:59

Input Set : E:\D0310 PCT sequence listing.ST25.txt  
 Output Set: N:\CRF4\02222006\J567867.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:18018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:2460  
 L:22598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:9480  
 L:32319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:0  
 M:341 Repeated in SeqNo=265  
 L:36738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:306 after pos.:0  
 M:341 Repeated in SeqNo=306  
 L:47704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382 after pos.:480  
 L:55527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:452 after pos.:0  
 M:341 Repeated in SeqNo=452  
 L:57852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:473 after pos.:0  
 L:61463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:497 after pos.:0  
 M:341 Repeated in SeqNo=497  
 L:76484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:608 after pos.:2520  
 L:83092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:661 after pos.:420  
 M:341 Repeated in SeqNo=661  
 L:112156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:855 after pos.:300  
 M:341 Repeated in SeqNo=855  
 L:122564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:925 after pos.:2700  
 L:122828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:926 after pos.:896  
 L:126773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:963 after pos.:0  
 M:341 Repeated in SeqNo=963  
 L:127280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:968 after pos.:360  
 M:341 Repeated in SeqNo=968  
 L:165444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1246 after pos.:0  
 M:341 Repeated in SeqNo=1246  
 L:167989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1267 after pos.:1860  
 L:171996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1313 after pos.:0  
 L:186198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1427 after pos.:4200  
 M:341 Repeated in SeqNo=1427  
 L:200827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1476 after pos.:52080  
 M:341 Repeated in SeqNo=1476  
 L:204243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1480 after pos.:18180  
 L:210786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1509 after pos.:1980  
 L:238374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1699 after pos.:0  
 M:341 Repeated in SeqNo=1699  
 L:248560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1764 after pos.:540  
 M:341 Repeated in SeqNo=1764  
 L:250747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1781 after pos.:3060  
 L:251171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1785 after pos.:240  
 L:256011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1792 after pos.:32  
 M:341 Repeated in SeqNo=1792  
 L:263695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1856 after pos.:96  
 L:270359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1894 after pos.:300  
 M:341 Repeated in SeqNo=1894  
 L:271941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1909 after pos.:5880  
 M:341 Repeated in SeqNo=1909

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/567,867

DATE: 02/22/2006

TIME: 09:36:59

Input Set : E:\D0310 PCT sequence listing.ST25.txt  
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L:274157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1917 after pos.:0

L:294452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2034 after pos.:0

M:341 Repeated in SeqNo=2034

L:297466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2059 after pos.:0